SERVICE MANUAL

AEP Model UK Model E Model



TA-V50 IS AMPLIFIER UNIT OF "LBT-V50W".

Weight:

SPECIFICATIONS

Continuous RMS power output (AEP, G-AEP, UK model)

50 + 50 watts

(6 ohms, at 1 kHz, 0.5% THD)

40 + 40 watts

(6 ohms, 40 Hz - 20 kHz, 0.5% THD)

Music power output (E model)

160 W (6 ohms, 5% THD)

Peak music power output (E model)

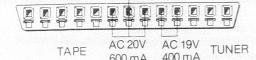
320 W (6 ohms)

nputs	Sensitivity	Impedance
PHONO (phono jacks)	2 mV	50 kilohms
CD, VIDEO (AUDIO IN) (phono jacks)	150 mV	50 kilohms
MIC (phone jack)	2 mV	20 kilohms

HEADPHONES (stereo phone jack)	Accepts headphones of 8 ohms or more
SPEAKER	Accepts speakers of 6 to 16 ohms

SYSTEM CONTROL 1 terminal (13-pin)

SYSTEM CONTROL 2 terminal (13-pin)



Frequency response



PHONO: RIAA curve ± 0.5 dB CD, VIDEO (AUDIO IN): $15 \text{ Hz} - 50 \text{ kHz} ^{+0}_{-3} \text{dB}$ MIC: 100 Hz - 10 kHz + 0 dB

Power requirements: AEP model: 220V ac, 50/60Hz

UK model: 240V ac, 50/60Hz

E model: 120, 220 or 240V ac

adjustable, 50/60Hz

Power consumption: AEP model: 110 watts UK model: 230 watts

E model: 110 watts

AEP model: 2 unswitched, 100 watts max. UK model: 2 switched, 100 watts max. E model: 2 unswitched, 100 watts max.

Approx. 355x98x290 mm (w/h/d) Dimentions:

 $(14x4^{1}/_{8}x9^{7}/_{8} \text{ inches})$

incl. projecting parts and controls

Approx. 5.8 kg (11 lb 15 oz) net

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

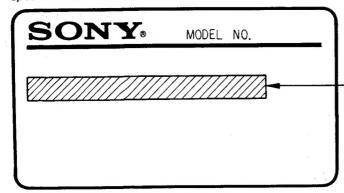
COMPONENTS IDENTIFIED BY SHADING AND MARK NON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.





MODEL INDENTIFICATION

- Specification Label -

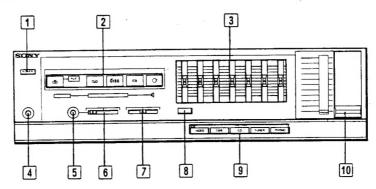


- AEP, G-AEP Model: AC220V 50/60Hz 110W

UK Model: AC240V 50/60Hz 230W E Model: AC120/220/240V 50/60Hz

110W

FUNCTION OF CONTROLS



1 POWER switch

Press the switch (\bigcirc ON) to turn on the power of the stereo system. To turn it off, press the switch again (\square OFF).

2 FUNCTION indicators

The indicator lights to show the input source in use.

3 GRAPHIC EQUALIZER controls

To equalize the listening or recording sound, slide each control upwards to increase the level of the frequency band, and downwards to decrease the level.

100 Hz: Use to boost or cut the bass.

250 Hz: Use to adjust the middle and low frequency range.

500 Hz: Use to adjust the middle frequency range.

1 kHz: Use to provide more presence of vocals.

3 kHz: Use to adjust the brightness of sound.

6 kHz: Use to adjust the middle and high frequency range.

14 kHz: This control effects general treble. Slide downwards to reduce high frequency noise, such as tape hiss.

To record or listen to the sound with the original tone quality, set all the controls at their center positions.

[4] HEADPHONES jack (stereo phone jack)

5 MIC (microphone) jack (phone jack)

Connect a microphone for microphone mixing.

6 MIXING control

Adjusts the balance between the volume of the microphone and the program source. Slide the control towards MIC to increase microphone volume, and towards SOURCE to increase source volume.

When not in use for microphone mixing, slide this control fully to SOURCE.

7 BALANCE control

Adjusts the balance of the left and right channel output levels.

8 GRAPHIC EQUALIZER switch

Depress this switch (\bot ON) to activate the graphic equalizer controls. Press it again (\bot OFF) to obtain the original tone quality.

9 FUNCTION select buttons

Press the desired program source button.

VIDEO/AUX: For video programs or another source connected to VIDEO inputs.

TAPE: For the tape programs.

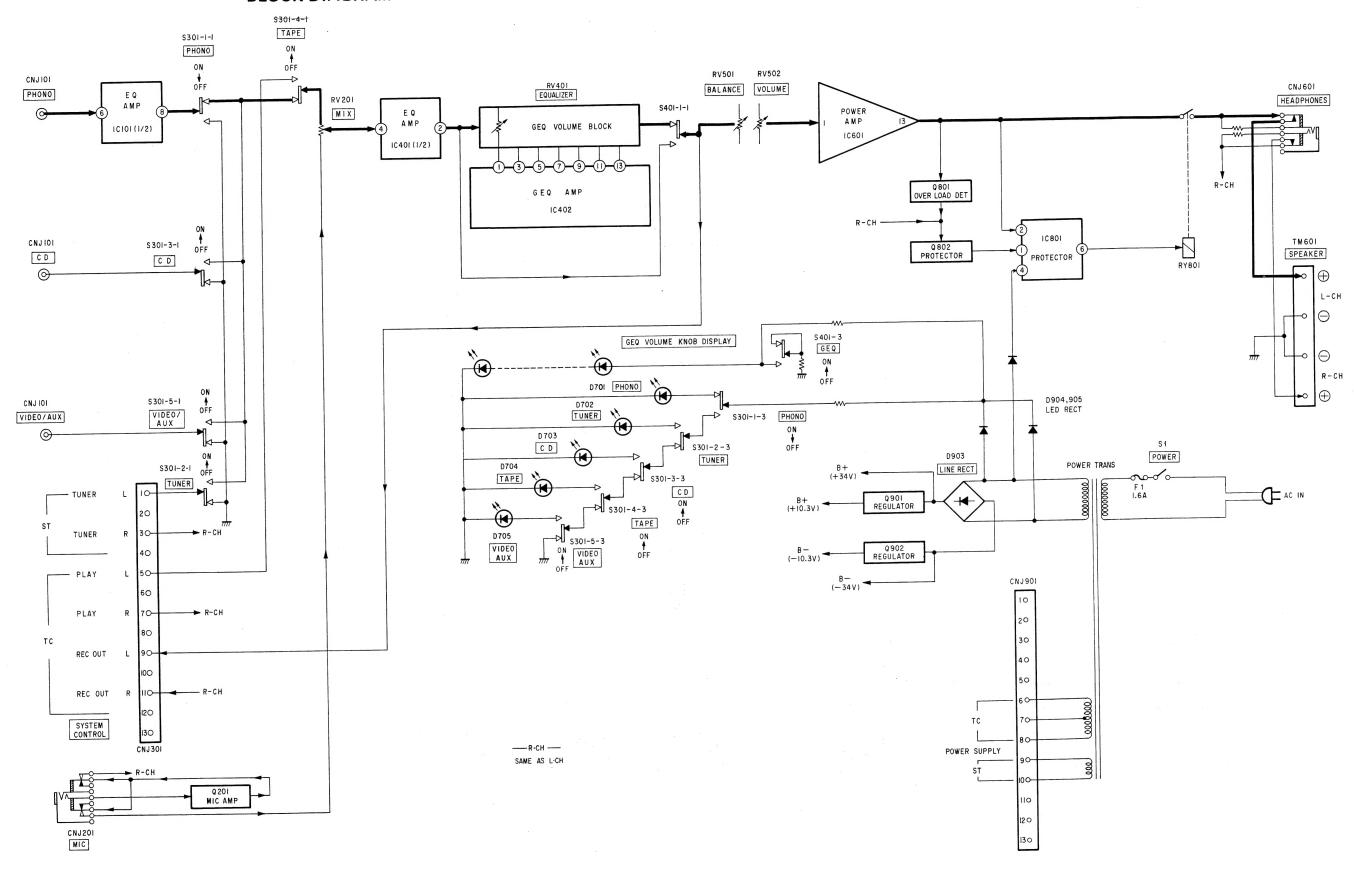
CD: For the programs connected to CD inputs.

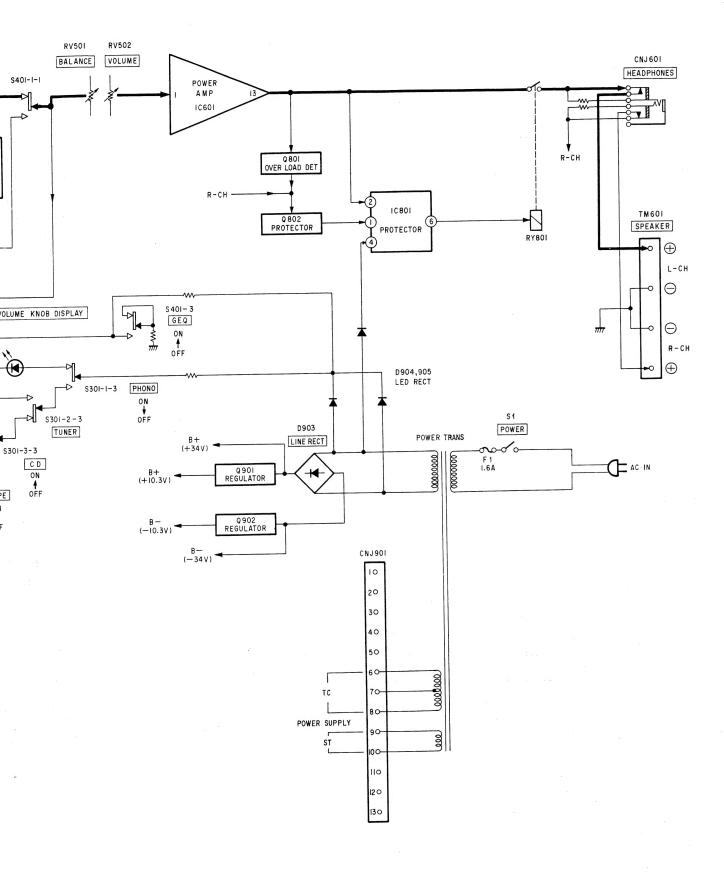
TUNER: For radio programs.

PHONO: For disc programs connected to PHONO inputs.

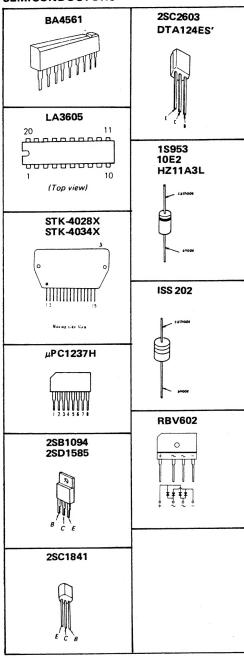
10 VOLUME control

SECTION 1
BLOCK DIAGRAM





SEMICONDUCTORS



Note on Schematic Diagram.

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
- : signal path (FUNCTION PHONO)
 : signal path (GEQ ON)

Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

- Components for right channel have same values as for left channel. Reference numbers are coded from
- m : nonflammable resistor.

Switch

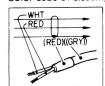
Ref. No.	Switch	Position
S301	FUNCTION	PHONO
S401	EΩ	ON

- : B+ bus.
- --- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (50 kΩ/V).

Note on Mounting Diagram

Note:

• Color code of sleeving over the end of the jacket.



• o-: parts extracted from the component side.

2-1. MOUNTING DIAGRAM

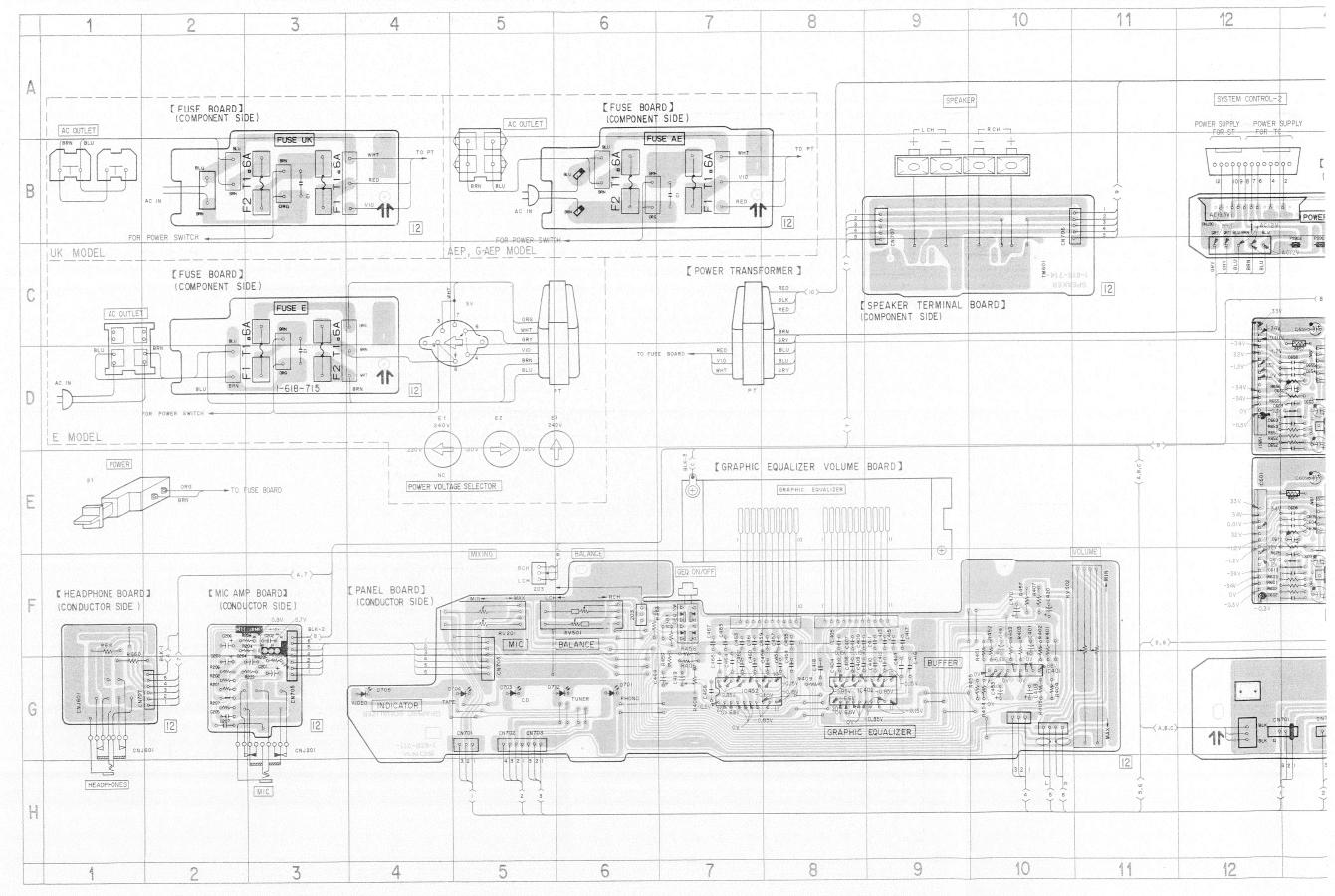
- Conductor Side -

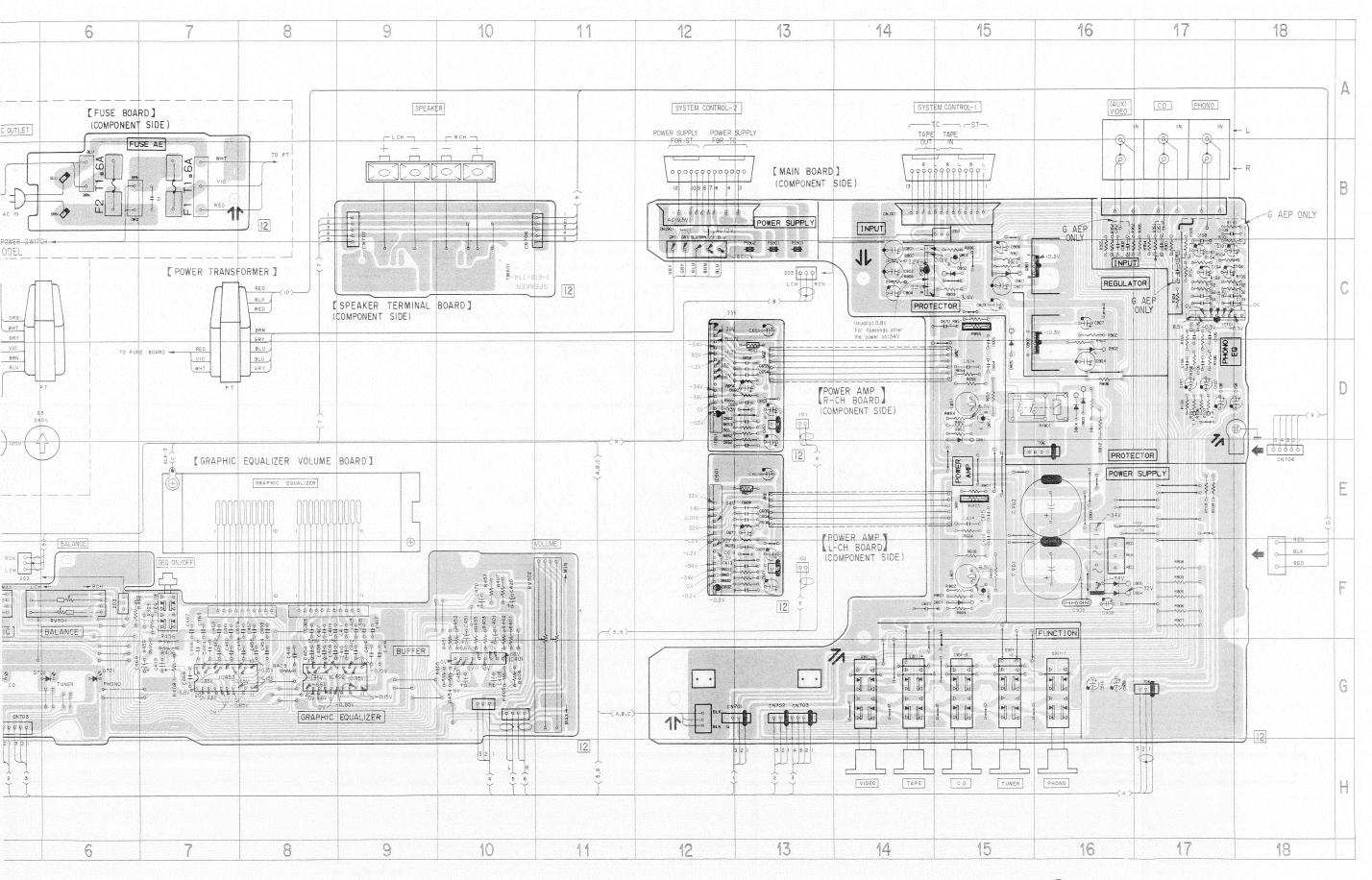
SEMICONDUCTOR

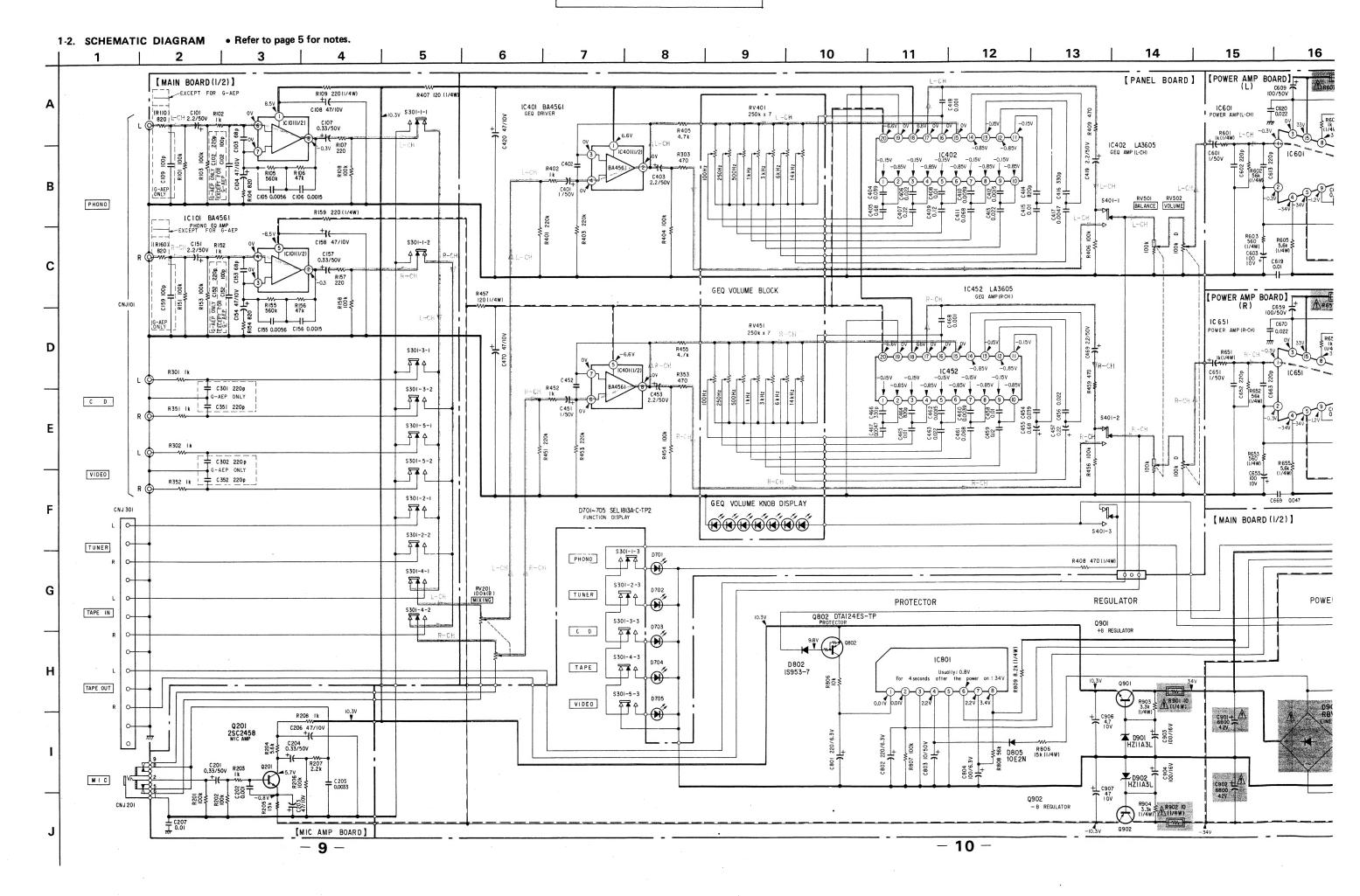
LOCATI	ON
Ref. No.	Location
IC101	C-17
IC401	G-10
IC402	G-8
IC452	G-7
IC601	E-12
IC651	D-12
IC801	C-14
Q201	F-3
Q801	F-15
Q802	C-15
Q851	D-15
Q901	C-15
Q902	D-15
D701 D702 D703 D704 D705	G-6 G-5 G-5 G-4
D801	F-15
D802	C-15
D803	D-16
D804	D-16
D805	D-15
D851	D-15
D901	C-15
D902	D-16
D903	F-16
D904	F-16
D905	F-16

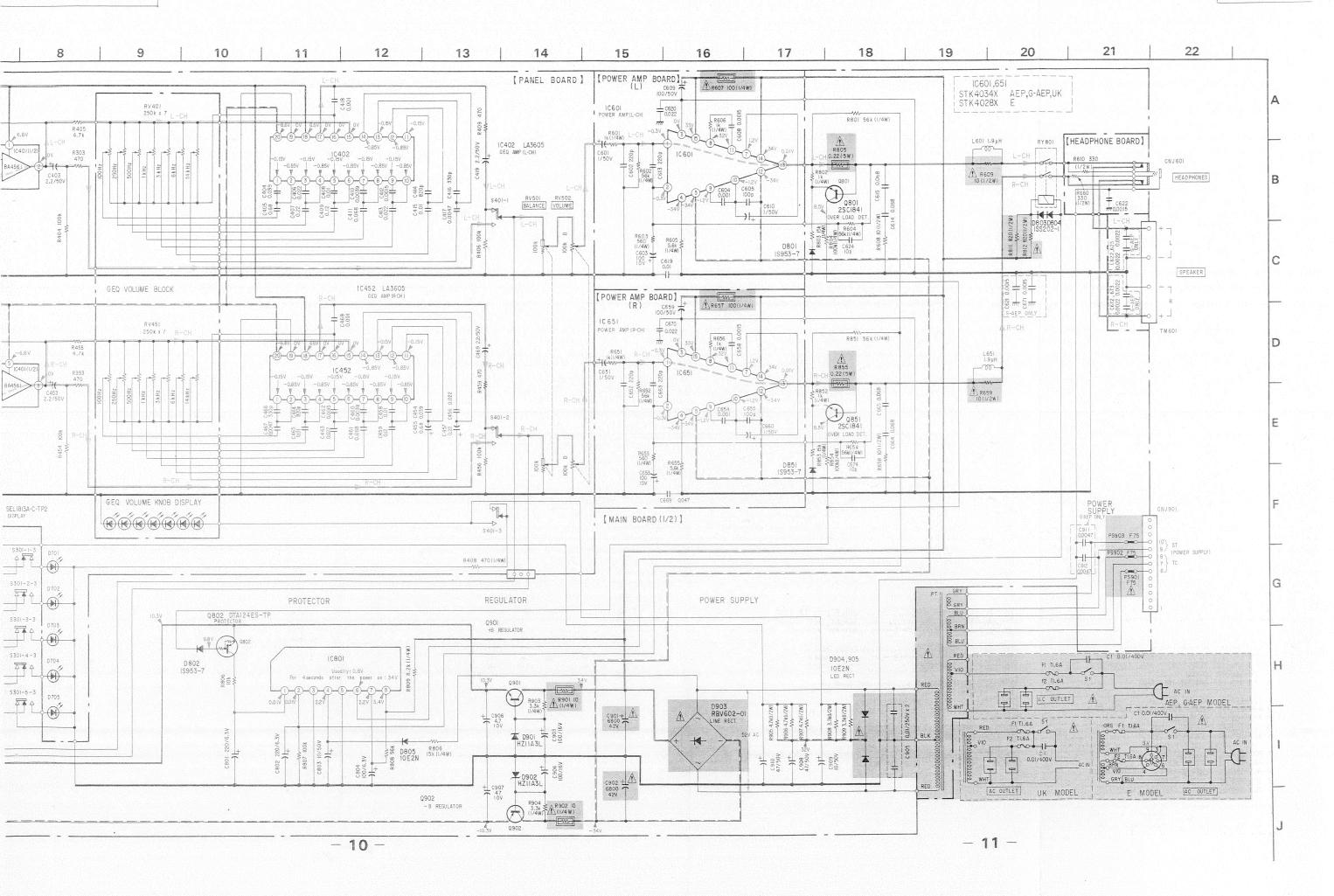
SECTION 2 DIAGRAMS

- Refer to page 5 for semiconductor lead layouts.
- Refer to page 5 for notes.









SECTION 3 EXPLODED VIEWS

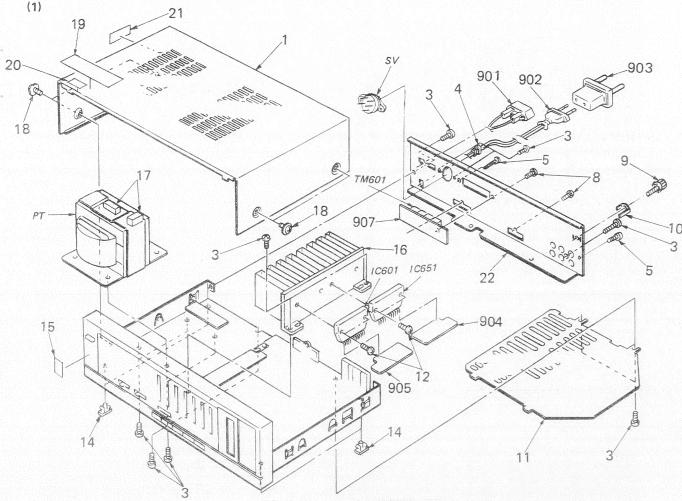
NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

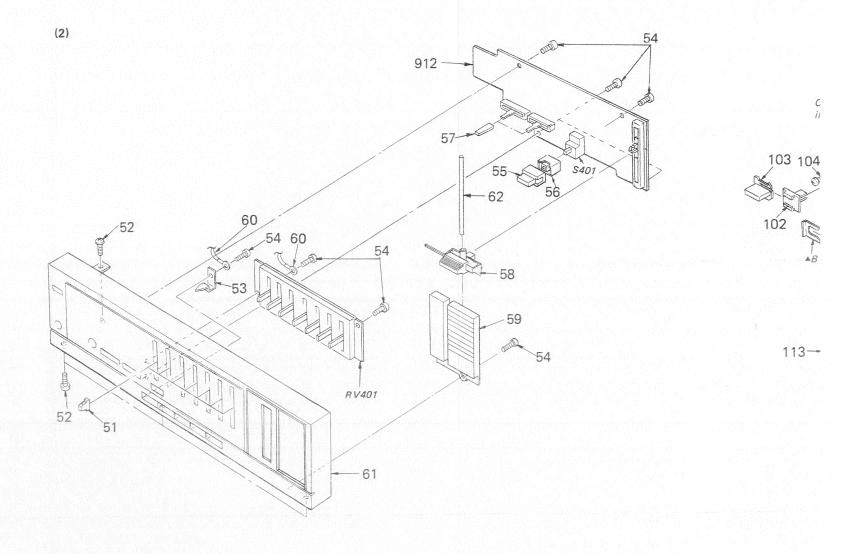
Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark Aare critical for safety. Replace only with part number specified.

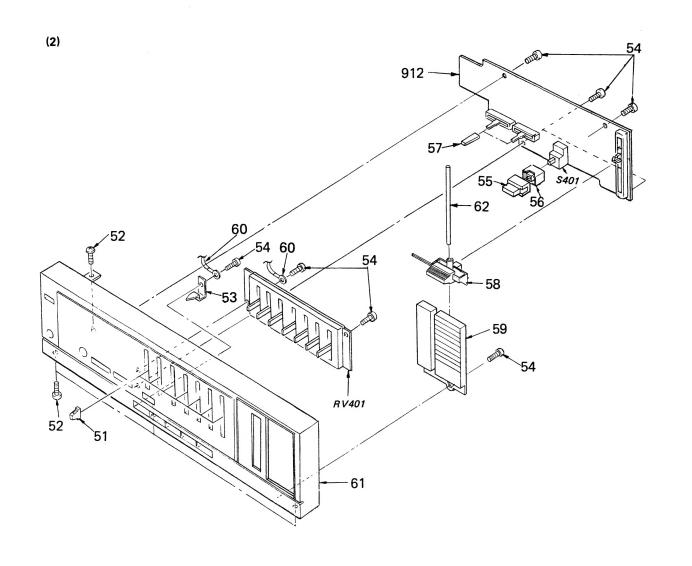


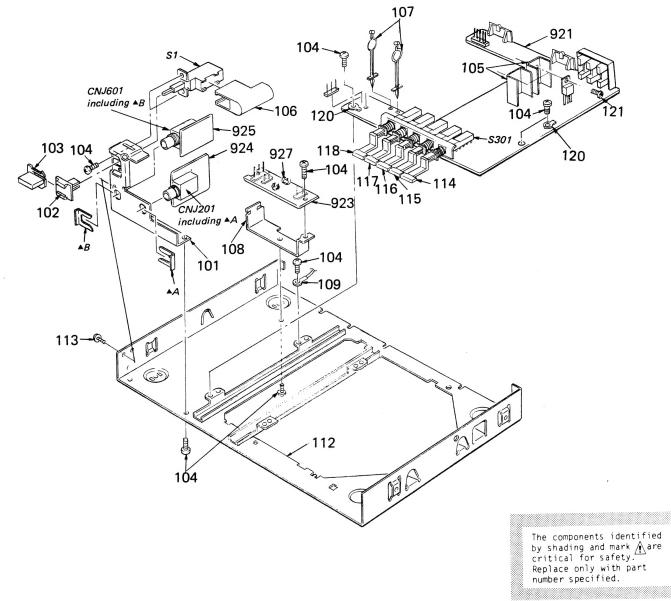
		3 ~~					
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1		(G-AEP,E,UK)CASE (AEP)CASE		901	▲.1-526-751-00	(E)OUTLET, AC (2 GANG) (UK)OUTLET, AC (AEP,G-AEP)OUTLET, AC	
3 4 5 8	3-703-244-00 3-703-473-00 7-685-646-71	SCREW +BYTT 3X8 (S) BUSHING (2104), CORD (G-AEP)SCREW, TERMINAL SCREW +BYTP 3X8 TYPE2 N-S		902	A.1-534-817-XX	(E)CORD, POWER (AEP,G-AEP)CORD, POWER (UK)CORD, POWER	
9 10	3-706-165-00 3-701-993-00					(E)AC PLUG ADAPTOR PC BOARD, POWER IC (R)	
11 12 14		PLATE, BOTTOM SCREW +BVTP 3X16 TYPE2 IT-3		905	*1-618-716-11 *1-618-714-11	PC BOARD, POWER IC (L)	
15 16	3-703-710-41	STICKER, SONY SYMBOL (12) HEAT SINK (E)		PT PT	<u>↑.1-448-483-11</u> <u>↑.1-448-482-11</u>	(E)TRANSFORMER, POW (AEP,G-AEP,UK)TRANSFORMER, POW	VER VER
17 18 19 20 21	4-861-045-01 3-701-690-01	CUSHION (A) SCREW, M3 CASE (AEP,G-AEP)CAUTION LABEL (UK)LABEL (UK)CAUTION LABEL		SV TM60		(E) SELECTOR, POWER VO TERMINAL BOARD (SP)	LTAGE
22	*4-914-033-11 *4-914-033-21	(AEP)PLATE (EXP), JACK (G-AEP)PLATE (EXP), JACK (UK)PLATE (EXP), JACK (E)PLATE (EXP), JACK			12 —		



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks	No.	Part
51 52 53 54 55 56 57 58	4-914-059-01 7-685-646-71 3-318-909-81 4-864-307-00 4-902-815-11	KNOB, SLIDE SCREW +BYTT 3X6 PLATE GROUND SCREW +BYTP 3X8 KNOB, PUSH RING KNOB, EQUALIZER KNOB ASSY, VOL		59 60 61 62 912 RV401 S401	4-914-026-11 7-623-508-01 X-4914-009-1 *4-904-458-61 *A-4358-172-A 1-237-200-11 1-570-632-11	PLATE, VOL LUG⊅3MM PANEL ASSY, FRONT SHAFT MOUNTED PCB, GRAPHIC EQUALIZER RES, VAR, SLIDE (BLOCK TYPE) SWITCH, PUSH (1 KEY)		101 102 103 104 105 106 107 108 109 112 113 114 115	*4-91 4-90 4-87 7-68 *4-88 3-57 *4-30 *4-90 7-62 *X-49 7-68 4-91 4-91

TA-V50 TA-V50





No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51 52 53 54 55 56 57	4-914-059-01 7-685-646-71 3-318-909-81 4-864-307-00 4-902-815-11	SCREW +BYTP 3X8 TYPE2 N-S KNOB, PUSH		912 RV401	*4-904-458-61 *A-4358-172-A 1-237-200-11	LUG⊅3MM PANEL ASSY, FRONT	

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101 102 103 104	4-907-611-01 4-875-466-00 7-685-871-01	SCREW +BYTT 3X6 (S)		117 118 120 121		KNOB (L), FUNCTION (TAPE) KNOB (L), FUNCTION (VIDEO/AUX) PLATE, GROUND SCREW +BVTT 3X8 (S)	
105 106 107	*4-308-851-00	COVER, POWER SWITCH PURSE LOCK		924	*1-618-712-11	PC BOARD, FUSE PC BOARD, MICROPHONE	
108 109 112	*4-902-812-01 7-623-508-01 *X-4914-004-1	LUG ⊅3MM CHASSIS ASSY		927	*1-618-713-11 1-533-183-11		
113 114 115 116	7-682-545-04 4-914-039-01 4-914-039-11 4-914-039-21	KNOB (L), FUNCTION (PHONO) KNOB (L), FUNCTION (TUNER)		CN160	1 1-507-849-00	JACK, LARGE TYPE (HEADPHONES) SWITCH, PUSH (AC POWER)(1 KEY)	

SECTION 4 ELECTRICAL PARTS LIST

- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF:μF, PF:μμF.

RESISTORS

· All resistors are in ohms. · F : nonflammable

COILS · MMH : mH, UH : μΗ

SEMICONDUCTORS

In each case, U : μ, for example:
UA...: μΑ..., UPA...: μΡΑ..., UPC...: μPC,
UPD...: μPD...

ELECTRICAL PARTS

The components identified by shading and mark Aare critical for safety.
Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
	A.1-526-752-00 A.1-526-751-00 A.1-526-794-11	(UK)	OUTLET, AC	(Z GAN	i)	C302 C351 C352	1-162-286-11 1-162-286-11 1-162-286-11	(G-AEP)CE (G-AEP)CE (G-AEP)CE	RAMIC 220PF	- 10% 10% 10%	50V 50V 50V
CATING A	▲.1-551-188-XX ▲.1-534-817-XX ▲.1-551-884-00	(AEP,G-AEP).	CORD, POWE	1		C401 C403 C404	1-123-611-00 1-123-612-00 1-136-160-00	ELECT ELECT FILM	1MF 2.2MF 0.039MF	20% 20% 5%	50V 50V 50V
903 904 905	A-1-526+565-00 *1-618-717-11 *1-618-716-11	PC BOARD, PO	WER IC (R)			C405 C406 C407	1-123-902-00 1-136-157-00 1-123-608-00.	ELECT FILM ELECT	0.68MF 0.022MF 0.22MF	20% 5% 20%	50V 50V 50V
907 912 921	*1-618-714-11 *A-4358-172-A *A-4388-516-A		GRAPHIC EQUA			C408 C409 C410	1-136-153-00 1-136-166-00 1-130-478-00	FILM FILM MYLAR	0.01MF 0.12MF 0.0039MF	5% 5% 5%	50V 50V 50V
923 924 925 927	*1-618-715-11 *1-618-712-11 *1-618-713-11 1-533-183-11	PC BOARD, FU PC BOARD, MI PC BOARD, HE HOLDER FUSE	CROPHONE			C411 C412 C413	1-136-163-00 1-130-473-00 1-136-157-00	FILM MYLAR FILM	0.068MF 0.0015MF 0.022MF	5% 5% 5%	50V 50V 50V
C1 C101	▲ 1-161-744-00 1-123-612-00	CERAMIC ELECT	0.01MF 2.2MF	20%	400V 50V	C414 C415 C416	1-162-293-31 1-136-153-00 1-162-288-31	CERAMIC FILM CERAMIC	820PF 0.01MF 330PF	10% 5% 10%	50V 50V 50V
C102 C102	1-162-282-31 1-162-286-11	(AEP,E,UK) (G-AEP)CE	RAMIC 220PF	10%	50V 50V	C417 C418 C419	1-130-479-00 1-162-294-31 1-123-612-00	MYLAR CERAMIC ELECT	0.0047MF 0.001MF 2.2MF	5% 10% 20%	50V 50V 50V
C103 C104 C105	1-162-219-31 1-123-306-00 1-130-480-00	CERAMIC ELECT MYLAR	68PF 47MF 0.0056MF	5% 20% 5%	50V 10V 50V	C420 C451 C453	1-123-822-00 1-123-611-00 1-123-612-00	ELECT ELECT ELECT	47MF 1MF 2.2MF	20% 20% 20%	10 V 50 V 50 V
C106 C107 C108	1-130-473-00 1-123-609-00 1-123-306-00	MYLAR ELECT ELECT	0.0015MF 0.33MF 47MF	5% 20% 20%	50V 50V 10V	C454 C455 C456	1-136-160-00 1-123-902-00 1-136-157-00	FILM ELECT FILM	0.039MF 0.68MF 0.022MF	5% 20% 5%	50V 50V 50V
C109 C151	1-162-282-31 1-123-612-00	(G-AEP)CE ELECT	2.2MF	10% 20%	50V 50V	C457 C458 C459	1-123-608-00 1-136-153-00 1-136-166-00	ELECT FILM FILM	0.22MF 0.01MF 0.12MF	20% 5% 5%	50 V 50 V 50 V
C152 C152 C153	1-162-282-31 1-162-286-11 1-162-219-31	(AEP,E,UK) (G-AEP)C			50V 50V	C460 C461	1-130-478-00 1-136-163-00	MYLAR FILM	0.0039MF 0.068MF	5% 5%	50V 50V
C154 C155	1-123-306-00 1-130-480-00	ELECT MYLAR	47MF 0.0056MF	20% 5%	10V 50V	C462	1-130-473-00	MYLAR FILM	0.0015MF 0.022MF	5% 5% 10%	50V 50V 50V
C156 C157 C158	1-130-473-00 1-123-609-00 1-123-306-00	MYLAR ELECT ELECT	0.0015MF 0.33MF 47MF	5% 20% 20%	50V 50V 10V	C464 C465 C466	1-162-293-31 1-136-153-00 1-162-288-31	CERAMIC FILM CERAMIC	820PF 0.01MF 330PF	10%	50V 50V
C159 C201 C202	1-162-282-31 1-123-609-00 1-162-294-31	(G-AEP)CE ELECT CERAMIC	RAMIC 100PF 0.33MF 0.001MF	10% 20% 10%	50V 50V 50V	C467 C468	1-130-479-00 1-162-294-31	MYLAR CERAMIC	0.0047MF 0.001MF	5% 10% 20%	50 V 50 V 50 V
C203 C204 C205	1-123-822-00 1-123-609-00 1-162-303-31	ELECT ELECT CERAMIC	47MF 0.33MF 0.0033MF	20% 20% 30%	10V 50V 16V	C469 C470 C601	1-123-612-00 1-123-822-00 1-123-380-00		2.2MF 47MF 1MF	20% 20%	10V 50V
C206 C207 C301	1-123-822-00 1-162-306-31 1-162-286-11	ELECT CERAMIC	47MF 0.01MF	20% 30% 10%	10V 16V	C602 C603 C604	1-161-315-00 1-124-443-00 1-161-323-00	CERAMIC ELECT CERAMIC	220PF 100MF 0.001MF	10% 20% 10%	50V 10V 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C605	1-161-271-00	CERAMIC	100PF	5%	50V
C608	1-161-053-00	CERAMIC	0.0015MF	30%	50V
C609	1-124-122-11	ELECT	100MF	20%	50V
C610	1-123-380-00	ELECT	1MF	20%	50 V
C613	1-161-315-00	CERAMIC	220PF	10%	50 V
C614	1-136-163-00	MYLAR	0.068MF	10%	50 V
C615	1-136-163-00	MYLAR	0.068MF	10%	50V
C616	1-162-301-31	CERAMIC	0.0015MF	30%	50V
C619	1-130-483-00	MYLAR	0.01MF	5%	50V
C620 C621 C622	1-161-494-00 1-161-325-00 1-161-494-00	CERAMIC (G-AEP)CE (G-AEP)CE			
C623	1-161-494-00	(G-AEP)CE	RAMIC 0.022	2MF 30	% 25V
C624	1-161-259-00	CERAMIC	10PF	5%	50V
C651	1-123-380-00	ELECT	1MF	20%	50V
C652	1-161-315-00	CERAMIC	220PF	10%	50V
C653	1-124-443-00	ELECT	100MF	20%	10V
C654	1-161-323-00	CERAMIC	0.001MF	10%	50V
C655	1-161-271-00	CERAMIC	100PF	5%	50V
C658	1-161-053-00	CERAMIC	0.0015MF	30%	50V
C659	1-124-122-11	ELECT	100MF	20%	50V
C660	1-123-380-00	ELECT	1MF	20%	50V
C663	1-161-315-00	CERAMIC	220PF	10%	50V
C664	1-136-163-00	MYLAR	0.068MF	10%	50V
C665	1-136-163-00	MYLAR	0.068MF	10%	50V
C669	1-130-483-00	MYLAR	0.01MF	5%	50V
C670	1-161-494-00	CERAMIC	0.022MF	30%	25V
C671 C672 C673	1-161-325-00 1-161-494-00 1-161-494-00	(G-AEP)CE (G-AEP)CE (G-AEP)CE	RAMIC 0.022		25V
C674	1-161-259-00	CERAMIC	10PF	5%	50V
C801	1-123-308-00	ELECT	220MF	20%	6.3V
C802	1-123-308-00	ELECT	220MF	20%	6.3V
C803	1-123-356-00	ELECT	10MF	20%	50V
C804	1-123-307-00	ELECT	100MF	20%	6.3V
C901	1-124-030-00	ELECT	6800MF	20%	42V
C903 C904	▲1-124-030-00 1-123-333-00 1-123-333-00	ELECT ELECT	6800MF 100MF 100MF	20% 20% 20%	42 V 16V 16V
C905 C906 C 907	▲1-102-394-00 1-123-306-00 1-123-306-00	CERAMIC ELECT ELECT	0.01MF 47MF 47MF	20% 20%	250V 10V 10V
C908	1-123-356-00	ELECT	47MF	20%	50V
C909		ELECT	10MF	20%	50V
C910		ELECT	47MF	20%	50V
C911 C912	1-161-328-11 1-161-328-11		RAMIC 0.00	47MF 30% 47MF 30%	50V 50V
	*1-563-251-11 *1-563-152-11	SOCKET, CONN			
CNJ20	1 1-507-911-11 1 1-563-347-11 1 1-562-068-13	JACK, PIN 6P JACK, LARGE SOCKET, CONN	TYPE		
	1 1-507-849-00 1 1-562-068-13	JACK, LARGE SOCKET, CONN		HONES)	
D701 D702 D703	8-719-302-16 8-719-302-16 8-719-302-16		3A-C-TP2		

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D704 D705 D801	8-719-302-16 8-719-302-16 8-719-107-57	DIODE SEL1813A-C-TP2 DIODE SEL1813A-C-TP2 DIODE 1S953-7
D802 D803 D804	8-719-107-57 8-719-107-94 8-719-107-94	DIODE 1S953-7 DIODE 1SS202-1 DIODE 1SS202-1
D805 D851 D901	8-719-200-77 8-719-107-57 7-719-910-13	DIODE 10E2-N DIODE 1S953-7 DIODE HZ11A3L
D904 A	7-719-910-13 18-719-302-38 18-719-200-77 18-719-200-77	DIODE HZ11A3L DIODE RBY-602-01 DIODE 10E2-N DIODE 10E2-N
	£1-532-259-00 £1-532-259-00	FUSE, TIME-LAG TI.6A FUSE, TIME-LAG TI.6A
IC401	8-759-802-54	IC BA4561 IC BA4561 IC LA3605 IC LA3605
IC601 IC601		(AEP,G-AEP,UK)IC STK4034MK-10 (E)IC STK4028MK-10
IC651 IC651	8-749-900-12 8-749-900-13	(AEP,G-AEP,UK)IC STK4034MK-10 (E)IC STK4028MK-10
10801	8-759-101-23	IC UPC1237H
J202	*1-562-249-00 *1-562-249-00 *1-562-250-00	SOCKET, CONNECTOR 4P SOCKET, CONNECTOR 4P SOCKET, CONNECTOR 5P
J701	*1-562-251-00 *1-562-327-00 *1-562-327-00	SOCKET, CONNECTOR 6P SOCKET, CONNECTOR 3P SOCKET, CONNECTOR 3P
J703	*1-562-328-00 *1-562-328-00 *1-562-328-00	SOCKET, CONNECTOR 7P SOCKET, CONNECTOR 7P SOCKET, CONNECTOR 7P
	*1-420-872-00 *1-420-872-00	COIL, AIR CORE 1.9UH COIL, AIR CORE 1.9UH
PS902 /	1-532-686-00 1-532-686-00 1-532-686-00	LINK, IC
PT <u>A</u>	.1-448-483-11 .1-448-482-11	(E)TRANSFORMER, POWER (AEP,G-AEP,UK)TRANSFORMER, POWER
Q201 Q801 Q802	8-729-606-33 8-729-108-05 8-729-900-36	TRANSISTOR 2SC2603F TRANSISTOR 2SC1841PA TRANSISTOR DTA124ES-DP
Q851 Q901 Q902	8-729-108-05 8-729-107-25 8-729-111-67	TRANSISTOR 2SC1841PA TRANSISTOR 2SD1585-L TRANSISTOR 2SB1094-L
R101 R102 R103	1-249-441-11 1-249-417-11 1-249-441-11	CARBON 100K 5% 1/6W CARBON 1K 5% 1/6W CARBON 100K 5% 1/6W
R104 R105 R106	1-247-829-00 1-247-897-00 1-249-437-11	CARBON 820 5% 1/6W CARBON 560K 5% 1/6W CARBON 47K 5% 1/6W
R107 R108 R109 R110	1-247-815-00 1-249-441-11 1-247-704-11 1-247-829-81	CARBON 220 5% 1/6 W CARBON 100K 5% 1/6 W CARBON 220 5% 1/4 W (G-AEP) CARBON 820 5% 1/6 W

The components identified by shading and mark Aare critical for safety.
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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R151	1-249-441-11	CARBON	100K	5%	1/6W
R152	1-249-417-11	CARBON	1K	5%	1/6W
R153	1-249-441-11	CARBON	100K	5%	1/6W
R154	1-247-829-00	CARBON	820	5%	1/6W
R155	1-247-897-00	CARBON	560K	5%	1/6W
R156	1-249-437-11	CARBON	47K	5%	1/6W
R157	1-247-815-00	CARBON	220	5%	1/6W
R158	1-249-441-11	CARBON	100K	5%	1/6W
R159	1-247-704-11	CARBON	220	5%	1/4W
R160	1-247-829-81	(G-AEP)CAR	BON 8	20 5%	1/6W
R201	1-249-441-11	CARBON	100K	5%	1/6W
R202	1-249-441-11	CARBON	100K	5%	1/6W
R203	1-249-417-11	CARBON	1K	5%	1/6W
R204	1-247-849-00	CARBON	5.6K	5%	1/6W
R205	1-247-859-00	CARBON	15K	5%	1/6W
R206	1-249-441-11	CARBON	100K	5%	1/6W
R207	1-249-421-11	CARBON	2.2K	5%	1/6W
R208	1-249-417-11	CARBON	1K	5%	1/6W
R301	1-249-417-11	CARBON	1K	5%	1/6W
R302	1-249-417-11	CARBON	1K	5%	1/6W
R303	1-247-823-00	CARBON	470	5%	1/6W
R351	1-249-417-11	CARBON	1K	5%	1/6W
R352	1-249-417-11	CARBON	1K	5%	1/6W
R353	1-247-823-00	CARBON	470	5%	1/6W
R401	1-247-887-00	CARBON	220K	5%	1/6W
R402	1-249-417-11	CARBON	1K	5%	1/6W
R403	1-247-887-00	CARBON	220K	5%	1/6W
R404	1-249-441-11	CARBON	100K	5%	1/6W
R405	1-249-425-11	CARBON	4.7K	5%	1/6W
R406	1-249-441-11	CARBON	100K	5%	1/6W
R407	1-247-109-00	CARBON	120	5%	1/4W
R408	1-247-708-11	CARBON	470	5%	1/4W
R409	1-247-823-00	CARBON	470	5%	1/6W
R451	1-247-887-00	CARBON	220K	5%	1/6W
R452	1-249-417-11	CARBON	1K	5%	1/6W
R453	1-247-887-00	CARBON	220K	5%	1/6W
R454	1-249-441-11	CARBON	100K	5%	1/6W
R455	1-249-425-11	CARBON	4.7K	5%	1/6W
R456	1-249-441-11	CARBON	100K	5%	1/6W
R457	1-247-109-00	CARBON	120	5%	1/4W
R459	1-247-823-00	CARBON	470	5%	1/6W
R601	1-247-713-11	CARBON	1K	5%	1/4W
R602	1-247-173-00	CARBON	56K	5%	1/4W
R603	1-247-125-00	CARBON	560	5%	1/4W
R604	1-247-173-00	CARBON	56K	5%	1/4W
R605	1-247-149-00	CARBON	5.6K	5%	1/4W
R606	1-247-713-11	CARBON	1K	5%	1/4W
R607	1-247-700-11	CARBON	100	5%	1/4W F
R608	1-247-192-00	CARBON	10	5%	1/2W
R609	1-247-192-00	CARBON	10	5%	1/2W F
R651	1-247-713-11	CARBON	1K	5%	1/4W
R652	1-247-173-00	CARBON	56K	5%	1/4W
R653	1-247-125-00	CARBON	560	5%	1/4W
R654	1-247-173-00	CARBON	56K	5%	1/4W
R655	1-247-149-00	CARBON	5.6K	5%	1/4W
R656	1-247-713-11	CARBON	1K	5%	1/4W
R657	1-247-700-11	CARBON	100	5%	1/4W F
R658	1-247-192-00	CARBON	10	5%	1/2W

ELECTRICAL PARTS

Re	f.No.	Part	No.	Description			
7-14-54-6	DEED A	1-24	7-192-00	CARBON	10	5%	1/2W F
	R801		7-173-00	CARBON	56K	5%	1/4W
	R802		7-713-11	CARBON	1K	5%	1/4W
	NOUL	1 - 1,	,10 11	or in bon	•		-,
	R803	1-249	9-460-11	CARBON	15K	5%	1/4W
	R804		9-469-11	CARBON	100K	5%	1/4W
		1-21	7-156-00	RES, METAL	PLATE 0.2	12	5W F
Control Control	Malayen Mas 1114	an tour and	Marin of the Contract of the C	Dr. mar de la company			
	R806		9-429-11	CARBON	10K	5%	1/6W
	R807		9-441-11	CARBON	100K	5%	1/6W
	R808	1-24	7-873-00	CARBON	56K	5%	1/6W
					0.00	Fox	1 /411
	R809		7-153-00	CARBON	8.2K	5%	1/4W
Schen, Chrosia	R810		9-460-11	CARBON	15K	5%	1/4W
	R811 ⊿	11-24	7-751-11	CARBON	820	5%	1/2W
Artesta	0012 4		7-751-11	CARBON	820	5%	1/2W
· Partie	R851		7-173-00	CARBON	56K	5%	1/4W
	R852		7-713-11	CARBON	1K	5%	1/4W
	KOSŁ	1 24	/ /13 11	CARDON	11X	3.0	A) TH
	R853	1-24	9-460-11	CARBON	15K	5%	1/4W
	R854		9-469-11	CARBON	100K	5%	1/4W
ACCEPTANCE OF THE PARTY OF THE		A second design of the second	7-156-00	RES. METAL	PLATE 0.	22	5W F
V 9145,697	SANSON TONOR		the and the training	ngraph pr. Whitelet The Colon is	Of part of State (State)		The state of the s
at V	R901 A	1-21	7-387-00	FUSIBLE	10		1/4W F
a management	R902 A	1-21	7-387-00	FUSIBLE	10	5%	1/4W F
	R903	1-24	7-719-11	CARBON	3.3K	5%	1/4W
	R904		7-719-11	CARBON	3.3K	5% 5%	1/4W
	R905		7-256-00	CARBON	4.7K	5%	1/2W
	R906	1-24	7-256-00	CARBON	4.7K	5%	1/2W
	D007	1 04	7-256-00	CARBON	4.7K	5%	1/2W
	R907 R908		7-252-00	CARBON	3.3K	5%	1/2W
	R909		7-252-00	CARBON	3.3K	5%	1/2W
	REUE	1 24	7-232 00	CARDON	J.JK	3.0	1/211
	RV201	1-23	0-732-11	RES. VAR. S	SLIDE 100	K/100K	(MIC MIXING)
	RV401		7-200-11		LIDE (BL		
	RV501		7-201-11	RES, VAR, S			
	RV502		7-162-11	RES, VAR, S			(VOLUME)
	RY801	1-51	5-501-00	RELAY			
			and the state of the state of	or feelings and a second contract of	and the second	the state of the	control of the control of the control
30-1			4-920-11	SWITCH, PUS			KEY)
	S301	_	0-614-11	SWITCH, PUS			
	5401	1-57	0-632-11	SWITCH, PUS	H (I KEY	1	
ratives asks	TAME OF STA	24.550	e ere er	Single Control Specification	PERC	TAD D	OWER VOLTAGE
15.4	2A V	1-2Z	6-576-51	(E)	SELEC	IUR, F	Survivor Lugar
	TM601	1_52	6-705-21	TERMINAL BO	(CD)		
	TOOM	1-03	0 /05-21	I EKNITHAL DE	JAKU (SP)		
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